



About This Guide

Audience

The *Cisco XR 12416 Router Installation Guide* is written for hardware installers and system administrators of Cisco routers.

This publication assumes that the user has a substantial background in installing and configuring router and switch-based hardware. The reader should also be familiar with electronic circuitry and wiring practices, and have experience as an electronic or electromechanical technician.

This installation guide contains procedures for installing the router hardware.

Document Organization

This installation and configuration guide is organized into the following chapters and appendixes:

- [Chapter 1, “Product Overview,”](#) provides an introduction to the router with a description of system components.
- [Chapter 2, “Preparing for Installation,”](#) describes safety considerations, tools required, an overview of the installation, and procedures you should perform before the actual installation.
- [Chapter 3, “Installing the Router,”](#) provides instructions for installing the hardware and connecting the external network interface cables.

- [Chapter 4, “Troubleshooting the Installation,”](#) provides guidelines for troubleshooting the hardware installation.
- [Chapter 5, “Maintaining the Router,”](#) provides simple maintenance procedures that you might need to perform after you have installed the router. Also included are removal and replacement procedures for the field-replaceable units.
- [Appendix A, “Technical Specifications”](#) provides a summary of physical, electrical, and environmental specifications for the router.
- [Appendix B, “Site Log,”](#) provides a sample site log that can be used to record actions relevant to the operation and maintenance of the router.
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Document Conventions

This publication uses the following conventions:

- **Ctrl** represents the key labeled *Control*. For example, the key combination **Ctrl-Z** means hold down the **Control** key while you press the **z** key.

Command descriptions use these conventions:

- Examples that contain system prompts denote interactive sessions, indicating the commands that you should enter at the prompt. The system prompt indicates the current level of the EXEC command interpreter.

For example:

- The `router>` prompt indicates that you should be at the *user* level.
- The `router#` prompt indicates that you should be at the *privileged* level.

Access to the privileged level usually requires a password. Refer to the related software configuration and reference documentation for additional information.

- Commands and keywords are in **bold** font.
- Arguments for which you supply values are in *italic* font.
- Elements in square brackets ([]) are optional.
- Alternative but required keywords are grouped in braces ({ }) and separated by vertical bars (|).

Examples use these conventions:

- Terminal sessions and sample console screen displays are in `screen` font.
- Information you enter is in **bold** font.
- Nonprinting characters, such as passwords, are in angle brackets (< >).
- Default responses to system prompts are in square brackets ([]).
- Exclamation points (!) at the beginning of a line indicate a comment line.

**Caution**

Means *reader be careful*. You are capable of doing something that might result in equipment damage or loss of data.

**Note**

Means *reader take note*. Notes contain helpful suggestions or references to materials not contained in this manual.

**Timesaver**

Means *the described action saves time*. You can save time by performing the action described in the paragraph.

**Warning**

This warning symbol means *danger*. You are in a situation that could cause bodily injury. Before you work on any equipment, be aware of the hazards involved with electrical circuitry and be familiar with standard practices for preventing accidents. To see translations of the warnings that appear in this publication, refer to the *Regulatory Compliance and Safety Information* document that accompanied this device.

Obtaining Documentation, Obtaining Support, and Security Guidelines

For information on obtaining documentation, obtaining support, providing documentation feedback, security guidelines, and recommended aliases and general Cisco documents, see the monthly *What's New in Cisco Product Documentation*, which also lists all new and revised Cisco technical documentation, at:

<http://www.cisco.com/en/US/docs/general/whatsnew/whatsnew.html>